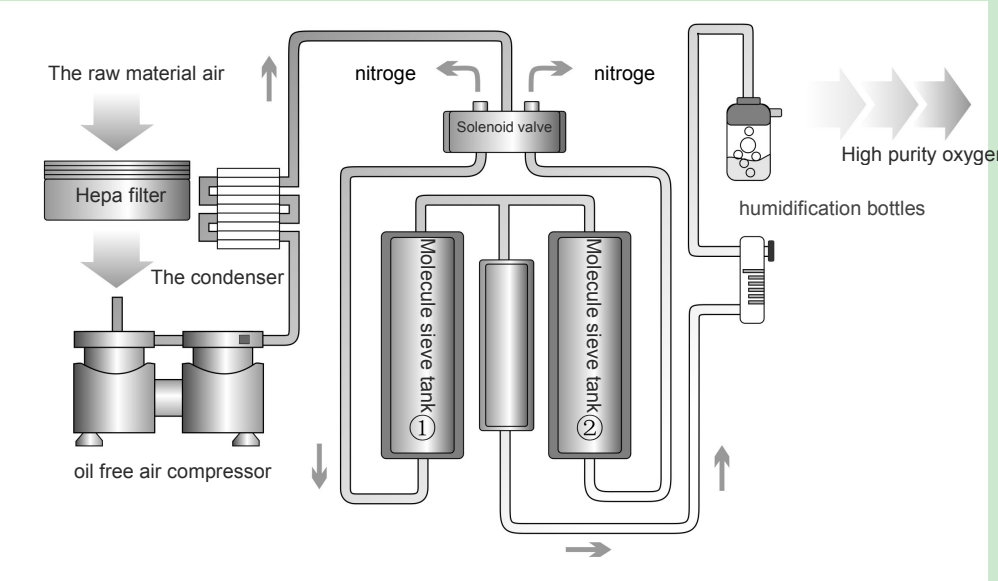
Series A

oxygen concentrator for domestic use

Instruction for use

Oxygen concentrator principle chart



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- Attached with oxygen concentrator electric circuit diagram

Foreword

Thank you for purchasing the oxygen concentrator of our company ,and we hope you are satisfied users of our products.

This instruction manual describes the product's function, operation steps and matters needing attention,as well as the basic fault exclusion, etc.

In order to be able to safely use this product, please read the instruction manual carefully before use.

After reading, please properly keep it in order to look up for reference at any time.

Please note that due to product improvements, We apologize if some of the illustrations in this instruction manual might not be completely the same with what you see in the machine

Safety notice!⚠Warning!

- This product is suitable for oxygen supplement, regardless of the life support or continue.
- Due to combustion effects of oxygen, please place the oxygen concentrator over 1.6 meters away from the objects which may produce sparks or bare electric line or flame and please use indoors.
- please don't smoke when you are taking in oxygen or close to the ongoing oxygen users.
- please don't place the oxygen concentrator near the strong magnetic field or electromagnetic interference sources.
- Do not use nasal tube under cover or chair cushion, , please be careful not to twist or knot nasal tubes.
- Shut off the power switch when you are not taking in oxygen.
- Oil or grease are disabled on the oxygen concentrator.
- Before you do any maintenance work, please make sure that oxygen concentrator has been blackouts in case of electric shock.
- To avoid electric shock, please don't open the oxygen concentrator shell on its own. If there is any quality problem, the customer shall not remove parts or maintenance without authorization.If you find the abnormal phenomenon such as alarm you should contact the dealer or manufacturer.
- Please don't pour liquid directly on the product shell, oxygen concentrator shell are not allowed to use organic solvents or cleaning agent.

Attention⚠Pay attention !

- The machine should be placed in a clean, no dust well ventilated space, no corrosion and environment use of poison gas.
- In order to avoid damage to the machine, the machine is not installed air inlet filter , high efficiency filter or too Filter not completely dry, please don't boot operation.
- When the machine is in use to ensure smooth bottom outlet exhaust, otherwise it will cause the machine to overheat.
- This machine is forbidden when handling side or upside down.
- The machine when handling of wetting water bottle should be poured out, avoid the water back in May.
- This machine is in use was intermittent exhaust noise (about 5 seconds).
- This machine is not frequently open/close: shutdown again after boot, the interval shall not be less than 5 minutes (namely ,exhaust internal gas of the machine completely,for if air compressor turns on with pressure will shorten its life)
- When the machine is shutoff the fan will continue to operate for a period of time to facilitate to exhaust the hot air inside the machine out.
- The humidifier should use distilled water or cold water, add the amount should be between the maximum and minimum scale line.

- Oxygen concentrator to clean project for humidifier, filter and high efficiency filter, which need every three days or so Clean humidifier and intervals of about 100 hours to clean the external filter , intervals of about 1500 to replace high efficiency filter
- Please confirm the flow under the condition of open power supply of oxygen.
- Do not use if for a few days, please all pour out the water, wipe dry wet bottle.
- Should be chosen to meet the requirements of form a complete set product specification nasal, such as to switch to other types of nasal, should be ensured With the oxygen concentrator compact connection is reliable, only I use nasal, nasal after the use shall not be arbitrarily Discarded, shall be carried out in accordance with the medical waste classification treatment, prevent environmental pollution.
- To prevent cross contamination, nasal, nebulizer should be someone special.
- If effective distance is 5 m, when remote control is no well, please shorten or replace the remote control cell
- Nebulizer has the medical device registration certificate shall be applied.
- The machine according to the household and similar electrical appliances safety standards GB4706.1-2005 design.

The OLV-A1 type for car use, the car cigarette lighter load electric power greater than 240 w (greater than fuse carrying current 20 A), the output voltage DC12V.

Product introduction

principle: This product is a portable oxygen concentrator which uses the PSA (Pressure Swing Adsorption) principle, using air as raw materials, zeolite molecular sieve as adsorbent and separating oxygen from nitrogen and other gases, Under atmospheric pressure, A high concentration of oxygen was isolated from the air when connecting the power and turning on the power supply.

Use of this product will not affect the oxygen content of indoor air.

works principle **refer to flow diagram.**

composition: oxygen concentrator is composed by high efficiency filter, oil free compressor, control system, molecular sieve, current limiting Setting, piping, nebulizer interface (optional) and connection parts.

features: this series of oxygen concentrator features low noise, small volume, light weight, convenient operation with a fault diagnosis Function and internal low pressure gas path, so it is safe and reliable and may be convenient to extract oxygen at any time when running.

Scope of application

This equipment is mainly suitable for making health care with oxygen.

Products- using environment

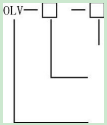
Ambient temperature: 10 ℃ to 40 ℃;

Relative humidity: 30% ~ 85%;

Atmospheric pressure: 700 hpa and 1060 hpa;

No corrosive gas environment and strong magnetic field.

Model specification



Function code (optional) : N :nebulization function; W: has alarm function

Specification code: 1, 2, 3 respectively shows high oxygen rated flow of 1 l/min, 2 l/min,3l/min

OLV - The OLV series oxygen concentrator

Annotations example: the OLV-A1 represents high oxygen concentrator rated flow of 1 l/min;

The OLV-A1 - N for high oxygen rated flow of 1 l/min, which has the function of nebulization oxygen concentrator;

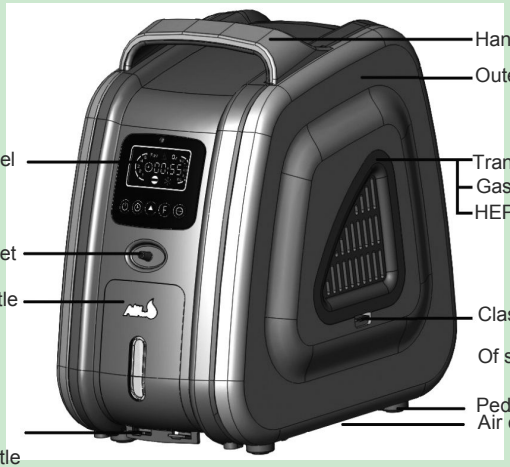
OLV rated flow - 2 - NW represents high oxygen for 2 l/min, oxygen concentrator with nebulization and alarm functions.

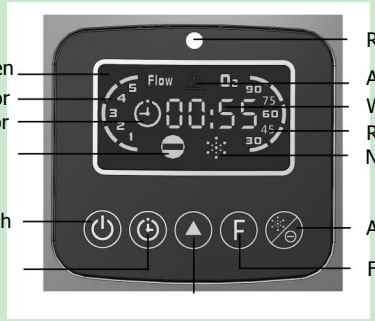
* This product types are subject to change without prior notice, please understanding.

Specification

Type / funtion	OLV-A1	OLV-A1-N	OLV-A1-W	OLV-A1-NW	OLV-A2	OLV-A2-N	OLV-A2-W	OLV-A2-NW	OLV-A3	OLV-A3-N	OLV-A3-W	OLV-A3-NW
Rated power（W）	90			135				210				
Working voltage	220V±10%～ 50Hz±1											
Oxygen flow（L/min）	1~5				2~9				1~3			
Oxygen concentrations （V/V）	30~96%								90±3%			
Power outage alarm	no		yes		no		yes		no		yes	
Temperature alarm	no		yes		no		yes		no		yes	
Valve damage alarm	no		yes		no		yes		no		yes	
anion function	yes		yes		yes		yes		yes		yes	
Remote Function	yes		yes		yes		yes		yes		yes	
The machine noise （dB（A））	≤42				≤45				≤48			
The weight (Kg)	7.8				8.5				8.5			
Overall dimensions （mm）	325×196×325											
The oxygen outlet pressure （KPa）	≥40											
nebulization outlet pressure （MPa）	-	〉0.1	-	〉0.1	-	〉0.1	-	〉0.1	-	〉0.1	-	〉0.1

Name and function of each part




Remote control port
Display screen
Alarm indicator
Flow indicator
Working time
Timing function indicator
Reference oxygen concentration indicator
Anion function indicator
Nebulization function indicator
power switch
Anion/Nebulization mode switch
Timing/continue mode switch
Flow adjusting
Timing adjusting

Remote control port
Display screen
Alarm indicator
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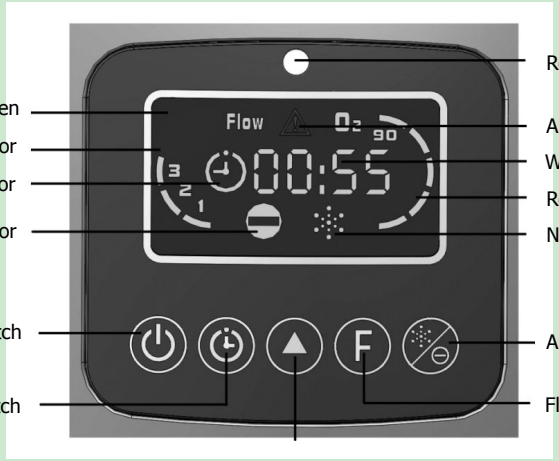
Timing adjusting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Display screen
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Anion function indicator
Alarm indicator
Working time
Reference oxygen concentration indicator
Nebulization function indicator
power switch
Timing/continue mode switch
Anion/Nebulization mode switch
Flow adjusting
Timing adjusting
Flow
O2
90
00:55
3
2
1
F

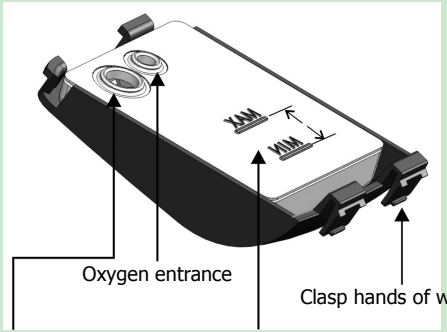
Operation steps:

1) Put oxygen concentrator in oxygen therapy convenient and air circulation place in at least 20 cm distance with the surrounding wall, curtains, etc.

2) As shown in the way of figure to remove humidifier cup, put the right amount of distilled water or or cold boiled water through the upper large round hole into the scale between the largest and the smallest scale line, then install the humidifier cup again.

Remove humidifier cup according to this direction

Install the humidifier cup according to this direction



water filling nozzle Water line with reference

3) Connect to the power, insert the plug of the power cord into oxygen concentrator power socket; the other end of the power socket is inserted to the indoor

power plug ,then turn on the power switch.

(4)Adjust required oxygen output flow button according to the need .

* Boot display for previous use mode;

* Display shows the approximate corresponding flow concentration.

5). Insert the inlet end of the nasal on the oxygen outlet, then set nasal on to the ears of oxygen user,Insert the blocked nose on the nasal into the nostrils of the oxygen user ; It is advisable to 30 ~ 60 minutes for oxygen therapy every time

6). When the oxygen therapy is finished, shut off the power switch. Discrete when using, please unplug the power plug.

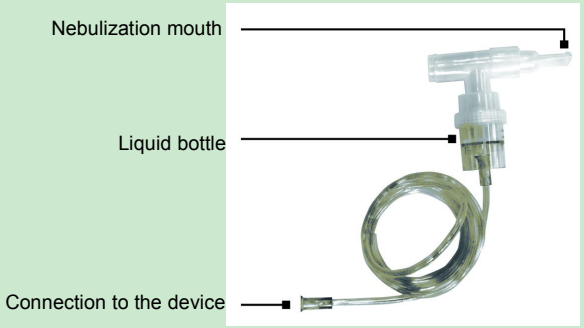
7)Timing oxygen therapy: when timing oxygen therapy is needed, first press continuous/timer switch key

at this time,regular time display on the screen flashes,then adjust the needed regular time through key(A total of 5 hours every 10 minutes), then press continuous/timer switch key and enter oxygen therapy status regularly, Timing function indicator is normally on. In the state of timing, it can be switched to the continuous state through press continuous/timer switch key .

8)The use of remote control: ensure oxygen concentrator power supply is switched on, aim the remote control at (as shown in figure 1)the port of the machine, press the remote control key and it can boot, the function button on the remote control is the same as the operation panel .

9)Anion functional use: it can start by pressing the key on the operation panel or the remote control , the logo lights up on the display screen .

10) Nebulization function: put the liquid drug solution inside the bottle according to the doctor's advice, and tightly capped bottle cap of liquids, connect one end of the tube of the connection interface of the nebulizer to the oxygen outlet from the machine (as shown in figure 2), press the key on the operation panel or remote control, when logo on the display window lights up, Nebulization treatment starts.



11)The use of vehicle type inverter:

Before use, please confirm that the car cigarette lighter power is in accordance with the requirements;

Please insert the vehicle-mounted inverter to cigarette lighter interface after car start, so as to avoid car instantaneous current strike damage; Please pulls out inverter cable from the cigarette lighter after using it .

Maintenance instructions

1) Clean humidifier cup :

Remove humidifier cup from the machine , and wash with tableware detergent or warm water and rinse it clean with clear water .

mix white vinegar with hot water in a ratio of 1:3, soak the humidifier cup in the mixture for 30 minutes in the sterilization.

After rinsing humidifier cup thoroughly with warm water ,dry it and set aside.

(2) Clean the shell:

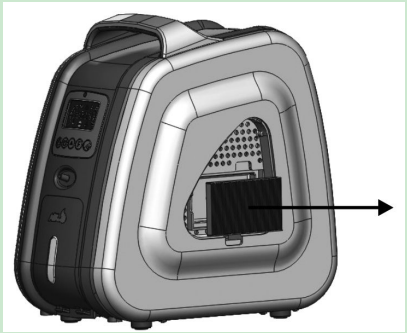
Please switch off the electricity, wipe casing external everywhere with clean soft wet towel with a few neutral furniture brighteners, then dry with a dry towel 1 ~ 2 times a month.

(3) Clean air inlet filter :

Remove the transom window on both sides as shown in figure, remove the filter , clean it with warm water and detergent to clean tableware, and rinse thoroughly with clear water, fold the excessive water, dry it in the air naturally, install it again in the same place for continual use.

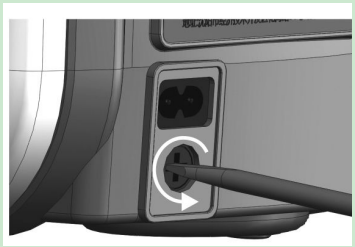
(4). Replace the hepa filter:

Replace the hepa filter of the oxygen concentrator after using every 1500 hours. Open the the inlet window on the right side of the machine shown in figure, to remove the old high efficiency filter, and install the new high efficiency filter .



(5) Tthe fuse replacement

The fuse is under the power switch at the back of the machine as shown in the figure below, unscrew fuse socket with a screwdriver, replace it with the new fuse, then screw the fuse socket well.



(6) Clean nebulizer:

after using nebulizer and connecting pipe , rinse them with cleaner and clear water ; Wash nebulizer nozzle and masks with water first, then soak in with medical alcohol for 5 minutes or sterilize or disinfect it in ultraviolet light , then rinse it with clear water again.

Trouble shooting guide

Order No.	failure phenomenon	causes	elimination method
1	Power failure alarm After pressing the power switch, oxygen concentrator has a continuous hum, the machine doesn't work	the plug is not properly plugged	check if the power cord is plugged in
		Indoor power socket is not charged	check whether the power supply
		oxygen concentrator circuit boards damaged	contact after-sale maintenance personnel
		The fuse damage	check the reason for replacing the fuse
2	temperature alarm oxygen concentrator has a continuous hum display shows E: 01 Machine stop working	axial flow fan does not work	contact after-sale maintenance personnel
		stuck at the bottom of the vent	check if the bottom of the vent open
3	Valve alarm oxygen concentrator has a	control valve motor damage	contact after-sale maintenance personnel

	continuous hum display shows E: 02 machine stop working	valve sensor fault	contact after-sale maintenance personnel
4	the remote control can not switch on after the power supply is connected	the remote control battery without electricity	change battery of the remote control
		distance of Remote control from machine is too far or too much Angle	adjust the distance and angle of remote control from the machine
		Remote control or oxygen concentrator receiver is damaged	contact after-sale maintenance personnel
5	no oxygen flow or oxygen flow is small amount when the oxygen concentrator start No bubbles of humidifier in the inland waters	oxygen tube kink or damage	straighten out the oxygen tube or replace oxygen tube
		leak on the Interfaces between the humidifier and the machine	reinstall the humidifier
		air inlet filter clogging	check air intake filter or cleaning or replace the new hepa filter
		the machine internal fault	contact after-sale maintenance personnel

Transportation and storage conditions

Ambient temperature range: - 20 ~ 45 ℃;

Range of relative humidity: 95% or less

The atmospheric pressure range: 500 ~ 1060 hpa

Quality assurance

The machine warranty scope: reference warranty card;

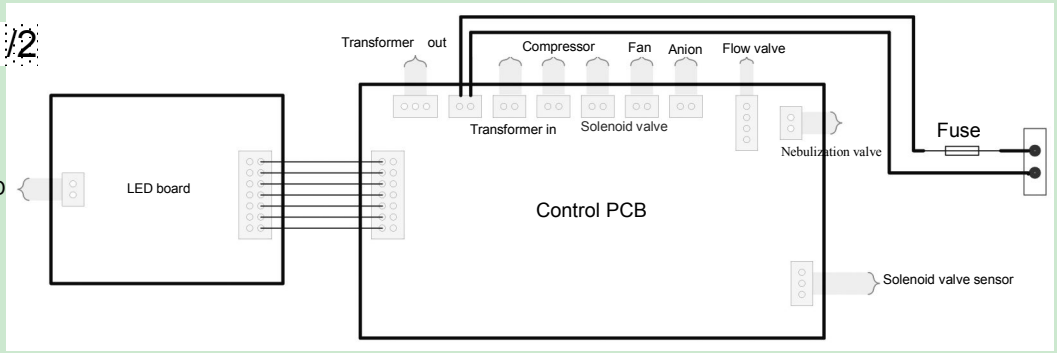
Please comply native law when the oxygen concentrator is discard

The oxygen percent of this device is low when height above sea level is high

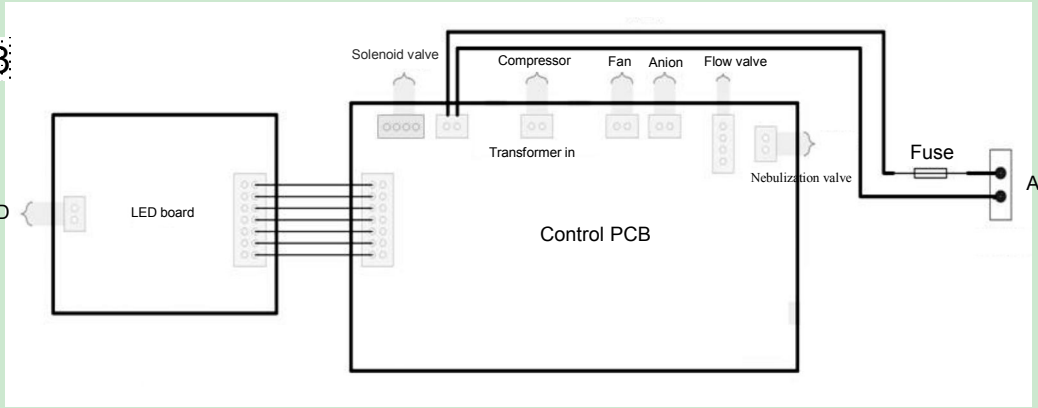
The product packing list (including the replaceable parts)

Oxygen concentrator	1
nasal	1
nasal (headset)	1
The power cord	1
Air inlet filter cotton	2 (replacement parts)
Hepa filter	2 (replacement parts)
The instructions	1
Warranty card	1
Certificate of approval	1
Fuse	1
*nebulizer	1(N model)
*vehicle type inverter	1(vehicle type)

OLV-1/2


Transformer out
Compressor
Fan
Anion
Flow valve
Transformer in
Solenoid valve
Nebulization valve
Fuse
AC in
LED
LED board
Control PCB
Solenoid valve sensor

OLV-3


Solenoid valve
Compressor
Fan
Anion
Flow valve
Transformer in
Nebulization valve
Fuse
AC in
LED
LED board
Control PCB

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